

## Message Text

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54

ACTION ACDA-10

INFO OCT-01 EUR-12 EA-06 IO-10 ISO-00 CIAE-00 INR-07 L-03

NSAE-00 NSC-05 EB-07 NRC-05 OES-03 FEAE-00 ERDA-05

H-02 OIC-02 OMB-01 PA-01 PM-03 PRS-01 SAJ-01 SAM-01

SP-02 SS-15 USIA-06 TRSE-00 DODE-00 ACDE-00 AF-06

ARA-06 NEA-10 /131 W

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P R 161615Z JUL 75

FM USMISSION GENEVA

TO SECSTATE WASHDC PRIORITY 4670

INFO AMEMBASSY BONN

AMEMBASSY LONDON

AMEMBASSY MOSCOW

AMEMBASSY ROME

AMEMBASSY THE HAGUE

AMEMBASSY TOKYO

USMISSION NATO

USMISSION USUN NEW YORK

USMISSION IAEA VIENNA

USDEL SALT TWO GENEVA

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DISTO

EO 11652: NA

TAGS: CCD, PARM

SUBJECT: CCD-PNE EXPERTS MEETING JULY 15

REF: A. GENEVA 5536; B) GENEVA 5584

FOR TTBT/PNE DELEGATION MOSCOW

BEGIN SUMMARY: CCD INFORMAL MEETING WITH PNE EXPERTS

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HELD AFTERNOON SESSION JULY 15. U.S. EXPRTS ANSWERED TWO

NETHERLANDS QUESTIONS CONCERNING LTBT, BUT MARTIN (U.S.) SAID INFORMATION ON PNE VERIFICATION SYSTEMS BORE ON TTBT/PNE NEGOTIATIONS AND COULD NOT BE PROVIDED. MEERBURG (NETHERLANDS) SAID HE UNDERSTOOD THIS POINT AND WENT ON TO BE HIGHLY NEGATIVE ON CONCEPT OF SAFEGUARDING INDIGENOUS PNE'S. ERICSSON (SWEDEN) GAVE ESTIMATES OF YIELD RESTRICTIONS NEEDED TO ACHIEVE A GIVEN CONFIDENCE LEVEL BY TELESEISMIC MEANS THAT 150 KT THRESHOLD NOT EXCEEDED. IMAI (JAPAN) POSED SEVERAL QUESTIONS WHICH MARTIN SAID U.S. EXPERTS WOULD ADDRESS AT NEXT INFORMAL MEETING JULY 16. END SUMMARY.

1. CCD INFORMAL MEETING WITH PNE EXPERTS CONTINUED JULY 15 WITH AFTERNOON SESSION CHAIRED BY DUGERSUREN (MONGOLIA). MARTIN (U.S.)) OPENED OPENED SESSION BY NOTING THAT U.S. EXPERTS WERE PREPARED TO ANSWER SOME OF QUESTIONS POSED JULY 14 BY NETHERLANDS, BUT IT WOULD NOT BE APPROPRIATE TO ADDRESS QUESTIONS ABOUT SPECIFIC INFORMATION ON PNE VERIFICATION SYSTEMS SINCE THESE BEAR ON THE TTBT/PNE NEGOTIATIONS.

2. U.S. EXPERT LANDAUER THAN ANSWERED FIRST AND SECOND QUESTIONS REFTEL (A). IN RESPONSE TO FIRST QUESTION HE NOTED THAT U.S. HAS NOT CONDUCTED LARGE-SCLAE PNE EXCAVATION PROJECTS, BUT U.S. STUDIES OF POSSIBLE PNE EXCAVATION PROJECTS IN U.S. AND SOME OTHER AREAS SHOW THAT EXCAVATION PROJECTS WOULD RISK VIOLATION OF LTBT, WITH LEVEL OF RISK GENERALLY INCREASING WITH PROJECT SIZE. HE NOTED THAT WHETHER OR NOT RADIOACTIVITY WOULD CROSS BORDERS IN PARTICULAR CASE IS COMPLICATED QUESTION, DEPENDING ON DEVICE DESIGN AND EMPLACEMENT, ON PROXIMITY OF PROJECT TO BORDERS, AND ON METEROROLOGICAL SITUATION AT DETONATION. ON BASIS OF U.S. STUDIES, WE ARE NOT AWARE HOW, USING CURRENT METHODS AND TECHNOLOGIES, IT WOULD BE POSSIBLE TO CONDUCT LARGE-SCALE EXCAVATION PROJECTS WITHOUT VIOLATING LTBT.

3. IN RESPONSE TO SECOND DUTCH QUESTION, LANDAUER NOTED THAT LTBT DOES NOT HAVE PROVISIONS EXPLICITLY LIMITING WEAPONS-RELATED BENEFITS OF TESTING, SUCH LIMITED OFFICIAL USE

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AS WEAPONS EFFECTS INFORMATION. SOME OTHERWISE CONCEIVABLE WEAPONS EFFECTS TESTS WOULD BE PRECLUDED UNDER LTBT CONSTRAINTS BY NEED TO BURY EXCAVATION EXPLOSIONS DEEPLY ENOUGH TO MEET LTBT CONSTRAINTS. IT IS CONCEIVABLE, HOWEVER, THAT, IN THE ABSENCE OF ADDITIONAL CONSTRAINTS ON PNE'S, SOME WEAPONS-RELATED INFORMATION, INCLUDING WEAPONS EFFECTS DATA, COULD BE OBTAINED FROM AN EXCAVATION EXPLOSION WITHOUT VIOLATING TERMS OF LTBT.

4. MEERBURG (NETHERLANDS) EXPRESSED UNDERSTANDING OF U.S. INABILITY TO ELABORATE ON PNE VERIFICATION PROVISIONS IN VIEW OF TTBT/PNE NEGOTIATIONS, BUT HOPED IN FUTURE WE COULD DO SO. HE WAS HIGHLY NEGATIVE ON CONCEPT OF SAFEGUARDS ON PRODUCTION OF PNE'S IN ANY NON-NUCLEAR-WEAPON STATE WISHING TO DEVELOP PNE'S. IN FIRST PLACE THIS WOULD AMOUNT TO OFFICIAL RECOGNITION OF MANUFACTURE OF NUCLEAR EXPLOSIVE DEVICES. SECONDLY, IT DOES NOT SEEM FEASIBLE TO VERIFY FLOW OF NUCLEAR MATERIALS EFFECTIVELY. THIS WOULD REQUIRE INSPECTORS WITH KNOWLEDGE OF INTERNALS OF NUCLEAR DEVICES, WHICH WOULD NOT BE ACCEPTABLE TO THE COUNTRIES DEVELOPING PNE DEVICES AND WHICH WOULD LEAD TO PROLIFERATION OF NUCLEAR EXPLOSIVE TECHNOLOGY. INSPECTORS FROM NWS ONLY COULD BE USED TO AVOID THESE PROBLEMS BUT THIS WOULD NOT BE ATTRACTIVE POLITICALLY. THERE WOULD ALSO BE POLITICAL PROBLEMS WITH USING INTERNATIONAL GUARDS AROUND EXPLOSIVE DEVICE PRODUCTION PLANTS TO BE SURE ONLY DEVICES USED FOR PNE PURPOSES LEAVE SUCH PLANTS.

5. ERICSSON (SWEDEN), ANSWERING SOME OF DUTCH QUESTIONS IN REFTEL (A), SAID HE COULD CONFIRM THAT, TO BE SURE BY TELESEISMIC MEANS THAT PNE YIELD IS LOWER THAN THRESHOLD, YIELD OF PNE MUST BE MUCH LOWER THAN THRESHOLD. BASED ON 1972 PAPER (CCD379) HE ESTIMATED YIELD WOULD NEED TO BE LIMITED TO 50-90 KT TO HAVE 99 PERCENT CONFIDENCE OF NOT EXCEEDING THRESHOLD OF 150KT. YIELD WOULD NEED TO BE LIMITED TO 35-80 KT TO HAVE CONFIDENCE LEVEL OF 99.9 PERCENT. ERICSSON ALSO ANSWERED DUTCH QUESTION ON POSSIBILITY OF DESIGNING VERIFICATION SYSTEM TO ASSURE NO WEAPON-RELATED BENEFITS WERE LIMITED OFFICIAL USE

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ACQUIRED FROM SHOTS ABOVE WEAPON THRESHOLD. HE SAID THAT, WITH ON-SITE INSPECTION, SUCH BENEFITS CAN BE REDUCED GREATLY, BUT AN IRREDUCIBLE MINIMUM WOULD STILL BE LEFT. THIS WOULD REQUIRE POLITICAL DECISION AS TO ADEQUACY OF THIS DEGREE OF VERIFICATION.

6. ROWE (CANADA) CALLED U.S. WORKING PAPER "MOST FORTHCOMING" AND INVITED COMMENTS ON HIS PRESENTATION AT THE MORNING PLENARY (REFTEL B).

7. IMAI (JAPAN) SAID HE HAD RECEIVED A NUMBER OF COMMENTS ON THE JAPANESE WORKING PAPER. THIS PAPER AND HIS REMARKS YESTERDAY WERE NOT INTENDED TO STATE JAPANESE POSITION OR PERSONAL VIEW, BUT TO STRUCTURE A LOGICAL APPROACH TO THE PNE PROBLEM AND TO INVITE

COMMENTS AND OPINIONS. HE SAID SOME INDIGENOUS PNE'S  
MAY TAKE PLACE, IN VIEW OF WHICH CONSIDERATION SHOULD  
BE GIVEN TO CONTROL MEASURES WHICH COULD BE APPLIED.  
HE THEN POSED ADDITIONAL QUESTIONS TO U.S., WHICH  
MARTIN SAID U.S. EXPERTS WOULD ADDRESS AT NEXT  
INFORMAL MEETING (WEDNESDAY AFTERNOON, JULY 16). DALE

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## Message Attributes

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**Copy:** SINGLE  
**Draft Date:** 16 JUL 1975  
**Decaption Date:** 01 JAN 1960  
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**Disposition Approved on Date:**  
**Disposition Authority:** GolinoFR  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
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